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<120> SMAD-INTERACTING POLYPEPTIDES AND THEIR USE

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<140> 09/449,285

<141> 1999-11-24

<150> PCT/EP98/03193

<151> 1998-05-28

<150> 97201645.5

<151> 1997-06-02

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ggcgcagctg gtcaccgctg cctgcagcca gggcaatctg agcaattgtg gctgtgaccg 720  
ggagaagcaa ggctactaca accaggcgga aggctggaag tgggggggct gctcagcgga 780  
cgtccgctac ggcatcgact tttctcgtcg ctttgtggat gcccgtaga tcaaaaagaa 840  
cgccggatcc 850

<210> 9

<211> 475

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (446)..(446)

<223> n can be any nucleotide

<400> 9

agacactggtt gtattcagat tattttcttag tggctggcctt ttgattctag acagagattc 60  
ttaaagtcct tttaaaaaag tggatcagga atcctgttat gggccttgat tgttccagac 120  
attagaagta aatatatttg atgaaggaaa tcttgaaaaa atactgacta gataaaaatt 180  
gtaagccaag ctttctgact gaaaaatgct acctagccac agatcattgc tgttatttgg 240  
ttcattgcat gagtgtgtat gtgtgtgtat atatgtatac acatatatat gtgtgtgtgt 300  
gtgtatgtgt acacacacat atatgtgggt tttgggggggt atggataaga tgggtgctatg 360  
aaaataattt gtctcttggt ttaattaatg aagcttctgt catgccaaagt aatctttaag 420  
ggagaatcag aacttttcat taaaantcat aagggaaca gaatttgtac ggggtg 475

<210> 10

<211> 1537

<212> DNA

<213> Mus musculus

<400> 10

agcggagttt cagtctgcgg acacgcgtgg agcccttgcc cgggcctcgg tgggtctgag 60  
gcgctgcgag ccctgggtaa ccacggcctc gagctgctgt cctcaccaag atcctccaat 120  
tctgaaccaa gaacaaaaaa atgtttcagc ttcgtgcatt tcaaagaagg cattaactag 180  
agcccagttt ggcggaacaag ttcttcattc aaaagagagt cctgttagga tctactgtgtc 240  
caaaaagaac acatttgttt tgggaggcat tgattgtact tatgaaaagt ttgaaaatac 300  
tgatgttaac accattagtt ctctttgtgt tcctattaag aatcatagcc aatctattac 360  
ttctgataat gatgtgacaa cagaaaggac tgcaaaagag gatattacag aaccaaata 420  
agagatgatg tccagaagaa ctattcttca agatcccata aagaatacat ctaaaattaa 480  
acgttcaagt ccaagaccta atttaacact atctggccgg tctcaaagaa aatgtacaaa 540  
gcttgaaact gttgtaaaag aagtaaaaaa atatcaggca gtccacctac aggaatggat 600  
gattaaagtc atcaataata atactgctat atgtgtagaa ggaaagctgg tagatatgac 660  
tgatgtttat tggcatagca atgtaattat agagcggatt aaacacaatg aacttaggac 720  
cttatcaggc aacatttata tcttaaaagg attgatagac tgggtctcca tgaaagaagc 780  
aggatatccc tgttatctca caagaaaatt tatgtttgga tttccccaca actggaagga 840





<211> 572

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (505)..(572)

<223> n can be any nucleotide

<400> 12  
tctggttcta cttttaattt ctacttcatt ctcttcactt gacaaatgtg atgaggaccg 60  
gcaataactgt gatacaccta tttgattttc agttttctgc agttttgagg gcaacttggt 120  
ctttttcata aaatcattgg tgagcatttg tttacttttc gggcaaggta tctgaatatg 180  
tctggcagtg attatgtcac attcattgca gtcctccttg gtattgcctt caaatcccac 240  
tctatgttca aaggtctctt gagacttact ggtagaactt ggagttccat gtatatctga 300  
gtcactttct tcttgatgct ttgctttgaa aaatccgata ttccttcaat agagagactg 360  
tagtctatac atctttgctc tatcaacttt ttgtttctaa gtggtgttat taaaacataa 420  
gctctcttct gactgagaag cgggtgtctt ctttctttgc cggaggtagc tgttccagtg 480  
attcaaggga tcaatgggta ctcantctct ctaanctata tcataagggtc tacttaatgc 540  
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<210> 13

<211> 579

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (315)..(579)

<223> n can be any nucleotide

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catttgaact agctgctggt gatgtgtctg aaactgctct tctgtgatgc cccctgttac 120  
tgatatgccg ttcttgctgg tgttcaataa agctacggat gctgcagaaa ctcttttact 180

gctcacagtc tgccttggtt ttcttgaggt acattcttca ctatcaatgt cctgtacatt 240  
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aagagacagt ctatnttcac aaggtttact gggaagcatt ggtccgagag aaattagaag 360  
aaaatctata gtttggaag acttgaaaac ccgttcagca tctcanggtc tatctgtttc 420  
aggacggggt catgttctgt ggatatccgt ccattatgaa cctgccactc tgccattccc 480  
ctccttgcaa tcctatacat cttcttggac tgtaatttcg taaganatgc ttataactcaa 540  
cttatccaat ctgccactct gaatttcnac atatggtan 579

<210> 14

<211> 403

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (400)..(400)

<223> n can be any nucleotide

<400> 14

ggaaagacaa agatgcagga tatagtactt ggaacaggct ttttaagtat tcatectaaa 60  
aatgaggctg agcacataga aaatggggct aagtgtccga atttggagtc cataaataag 120  
gtaaatggtc tttgtgagga cactgcaccg tctcctggta gggttgaacc acagaaggcc 180  
agttcttctg ctgacgtggg catttctaaa agcacggaag atctatctcc tcagagaagt 240  
ggtccaactg gagctgttgt gaaatctcat agtataacta acatggagac tggaggctta 300  
aaaatctatg acattcttgg tgatgatggc cctcagccgc caagttgcag cagttaaaat 360  
cgcatctgct gtggatgggg aagaacatat cagaagcaan tct 403

<210> 15

<211> 555

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

**POLYMER LETTERS**

**POLYMER LETTERS**

[illegible][illegible][illegible]

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acatccacag gtacatcaca na 562

<210> 17

<211> 347

<212> DNA

<213> Mus musculus

<220>

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<221> misc_feature
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<222> (6) .. (339)

<223> n can be any nucleotide

<400> 17

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gaggcgctgc gagccctggg taaccacggc ctcgagctgc tgtcctcacc aagatcctcc 120

aattctgaac caagaacaaa aaaatgtttc agcttcgtgc atttcaaaga aggcattaac 180

tagagcccag tttggcggac aagttcttca ttcaaaagag agtcctgtta ggatcactgt 240

gtccaaaaag aacacatttg ttttgggagg cattgattgt acttattgaa aagttttgaa 300

aatactgatg tttaacacca ttaagttctc tttgtgttnc ctaatta 347

<210> 18

<211> 569

<212> DNA

<213> Mus musculus

<220>

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<221> misc_feature
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<222> (156) .. (565)

<223> n can be any nucleotide

<400> 18

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gatctaacag agaatgttca gacccgaccc ttgtatttgg tctttttgaa ggactagtcc 120

gtgagtaatt gaaatcacta actgacatag ttctcncngn tatttcatta atagagggac 180

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gtctctgtga tcctgacatg actggagttc ttcccattga atgtaactct ctgtacgata 300  
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 agatacccac atttctccat gcctggctgg ggcaatctct gttgtaantg gtatccaata 480  
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<210> 19

<211> 338

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (42)..(321)

<223> n can be any nucleotide

<400> 19

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 tgagggggaa ggtgatatct ttccatcttc tcattacctg ccaatcacca aagaaggccc 120  
 tcgagacatt ctggatggca gaagtggcat ttctgtggct aacttcgacc cgggcacctt 180  
 tagcctgatg cgatgtgact tctgtggggc tggttttgat actcgggctg gcctctccag 240  
 tcatgcccg gcccaccttc gtgactttgg catcaccaac ttggggaact ccaccatctc 300  
 accatcaaca tccttgcaaa naacttgctg ggccacct 338

<210> 20

<211> 483

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (318)..(481)

<223> n can be any nucleotide

<400> 20

ggaggggtgta gcaaggcctg agaacatctt ccgggccgtg ggaggaggag aagcagttgg 60  
 tgagtggccc agaggactgc ctggtggtgg tggcaacttc ttggtcaaag gtgagatgtg 120  
 aagatcagag ggacttcggg cttctagtga gctgccagga cctccagtgc tcagcacctt 180  
 ggccagggtct tttgggctag gacctggtgg gtggaggtgt cccctggcc tggattgggt 240  
 ccgtctcttc aggatctccc gaagtgtgtc gatgggtgag ccgttcacat accactcagt 300  
 tacacccatc tggcgcangt gggaacgtgc atggctanac aagccctttc tgttctcaaa 360  
 gaatcaccac anaactcaca gcggatatct cttgttggct ctgggcctga ancatctccg 420  
 tanattggcc canggtcctc accccantta ngcgggaaag gcatggtnaa aagtaacctt 480  
 ngc 483

<210> 21

<211> 51

<212> PRT

<213> SBD mutant

<400> 21

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Met	Asn	Ser	Asn	Leu	Ser	Glu	Val	Gln	Lys	Val	Leu	Gln	Ile	Val	Asp
			20					25					30		
Asn	Thr	Val	Ser	Arg	Gln	Lys	Met	Asp	Cys	Lys	Thr	Glu	Asp	Ile	Ser
		35					40					45			
Lys	Leu	Lys													
		50													

<210> 22

<211> 23

<212> DNA

<213> F3th12F (forward primer)

<400> 22

cggcggcaga tacgcctcct gca

23

<210> 23

<211> 29

<212> DNA

<213> th12 mousel (reverse primer)

